

**Louisiana Flood Protection Authority**

**U.S. Army Corps of Engineers**

**CONCEPT**

**DESIGN**

**CONSTRUCTION**

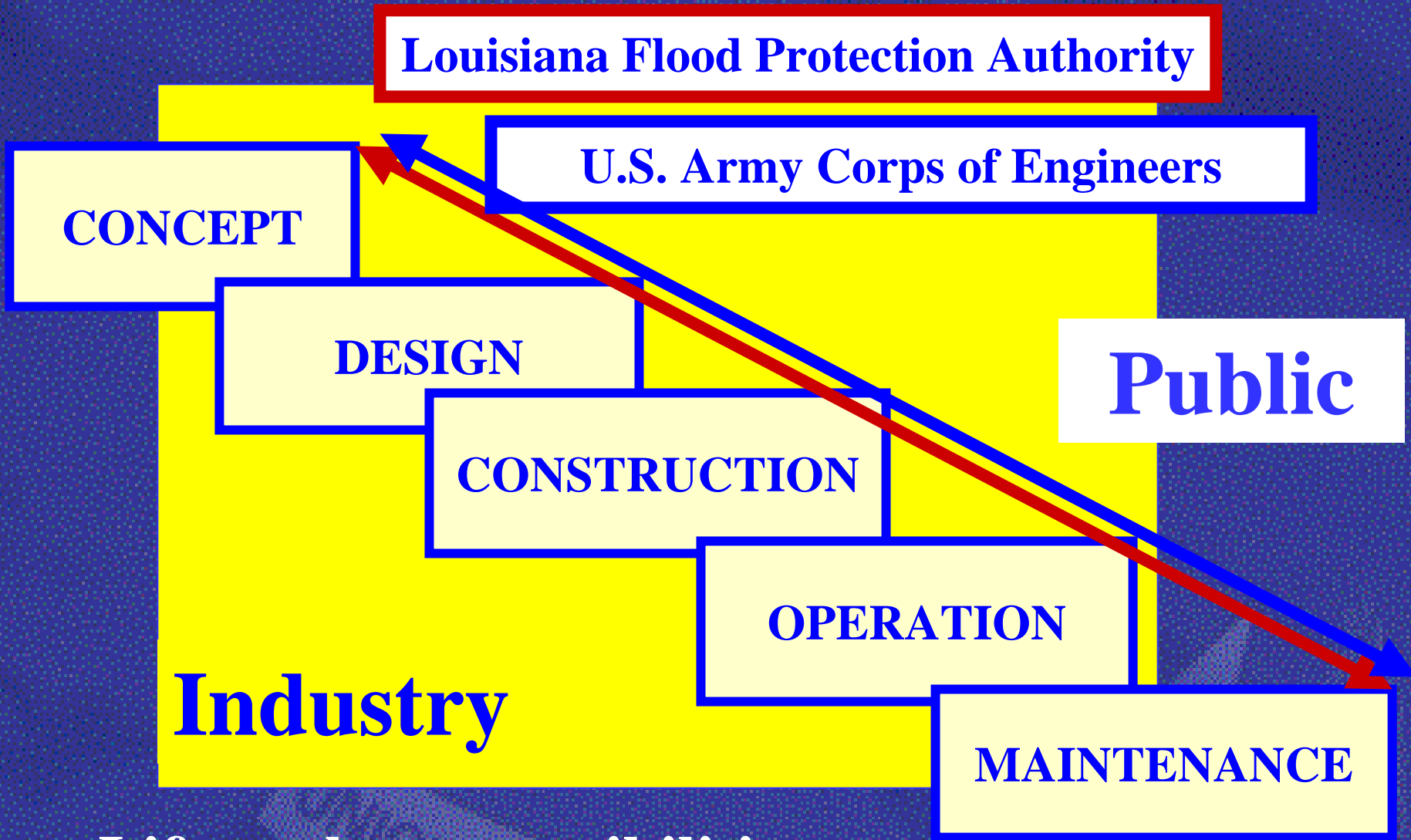
**OPERATION**

**MAINTENANCE**

**Public**

**Industry**

**Life-cycle responsibilities  
for provision of  
FLOOD PROTECTION**



An aerial photograph of a dam with water cascading over its spillways, creating white rapids. The text is overlaid on the image.

# **Employ Advanced Risk Assessment & Management Processes**

**including High Reliability  
Organizations working with  
integrated Proactive, Reactive  
& Interactive Approaches**



**Netherlands - 5000 to 10,000  
year protection**

**New Orleans - 50 to 100 year  
protection ?**





# Constructed Works Engineering Approach

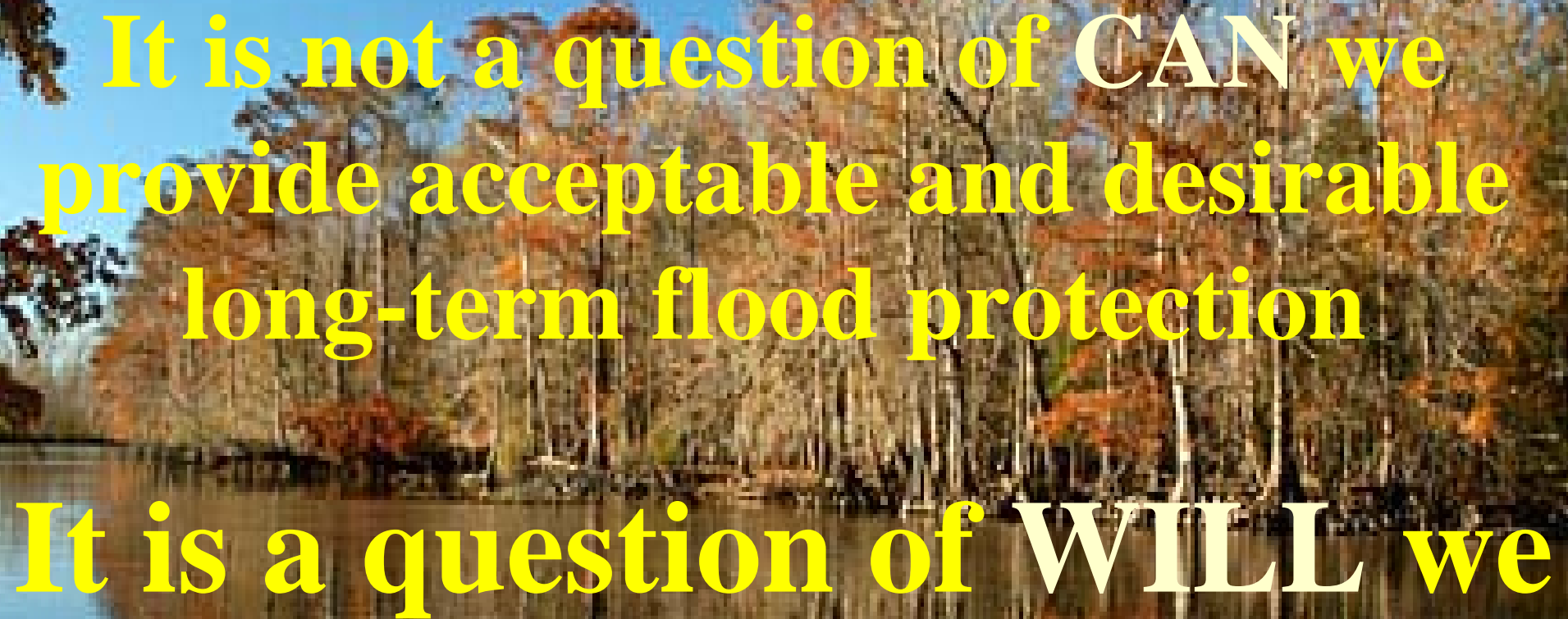
***Not Sustainable***

An aerial photograph showing a vast, flooded landscape. The water is a deep blue, and the land is a mix of brown and green, indicating some vegetation still visible above the water. In the far background, a city skyline is visible under a clear blue sky.

*Engineer an integrated and coherent*

# **Flood Protection SYSTEM**

*Nature first,  
engineered works second*

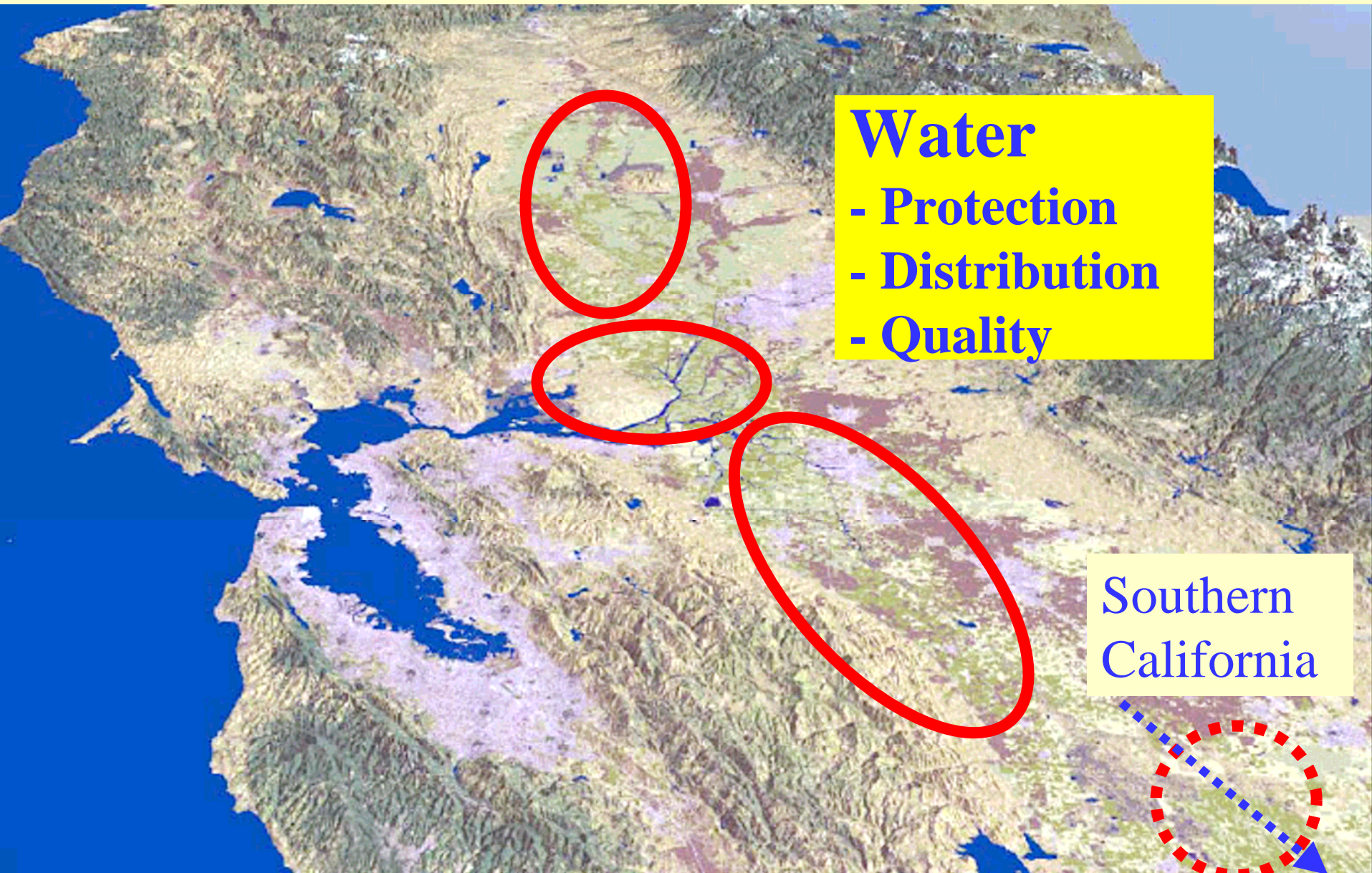


**It is not a question of CAN we  
provide acceptable and desirable  
long-term flood protection**

**It is a question of WILL we**



# Multi-part challenge: protect people, property, productivity, water, environment

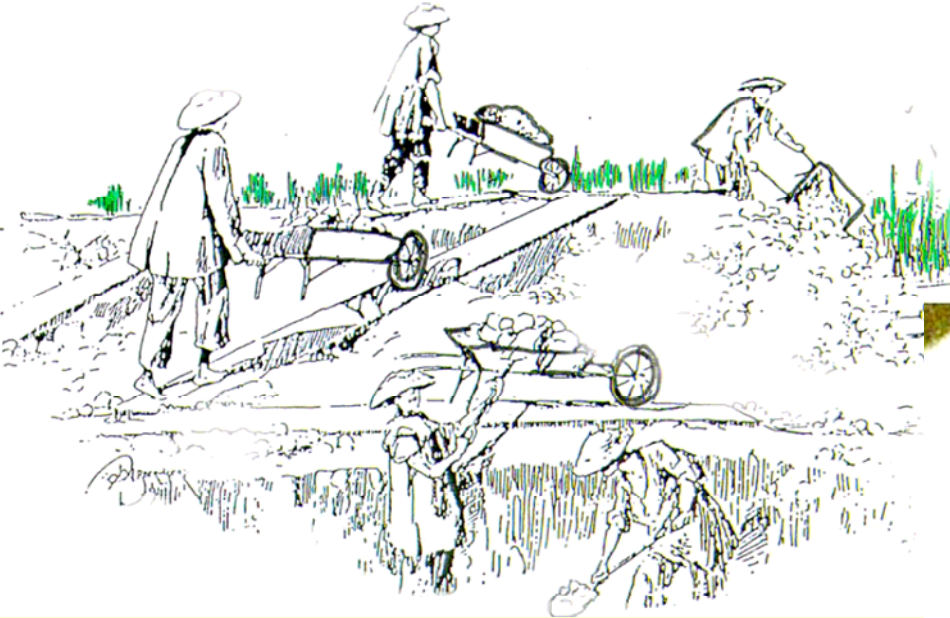


## Water

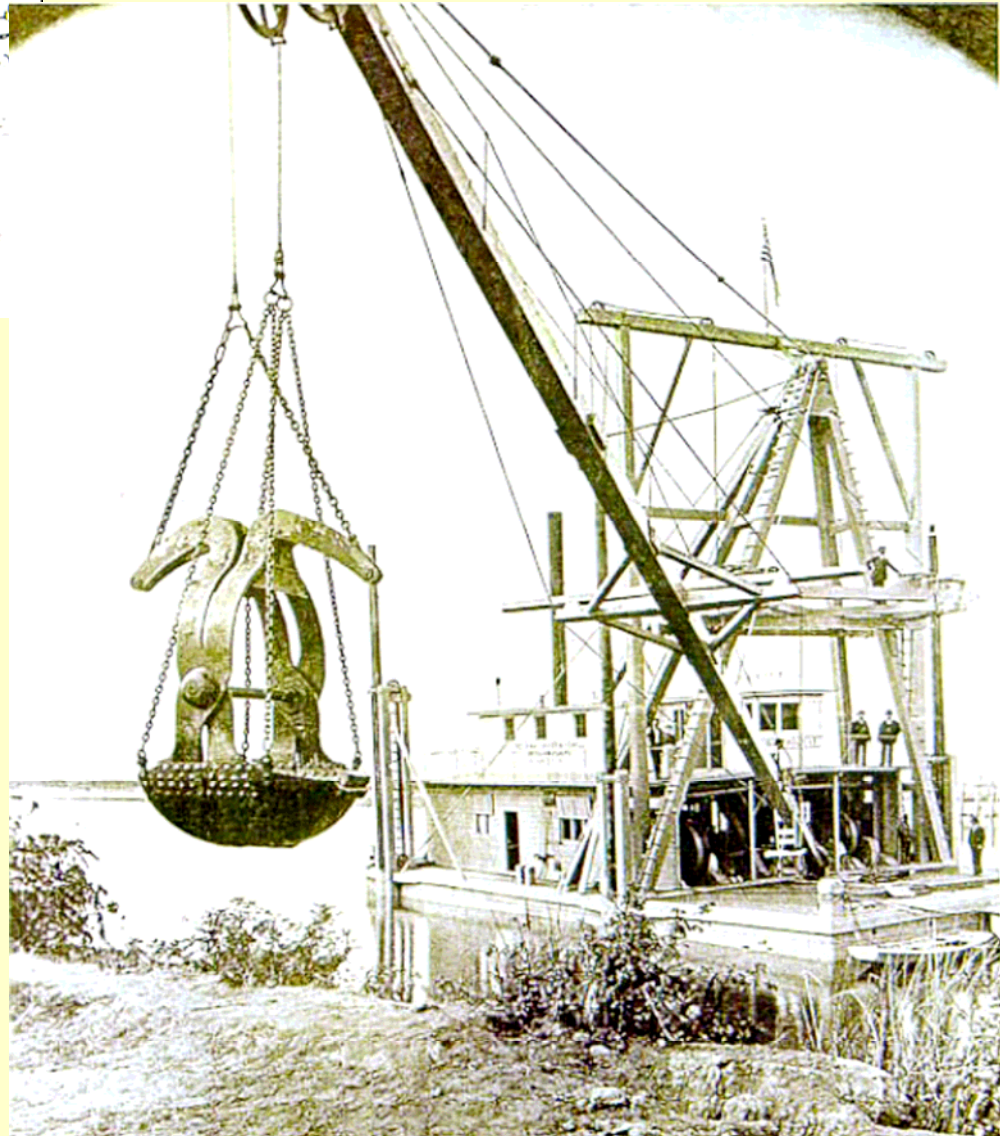
- Protection
- Distribution
- Quality

Southern  
California





# Levee Development





# Historical Levee Failures

